

# A Comparison of Multilayer Clouds Inferred between the Passive and Active Satellites

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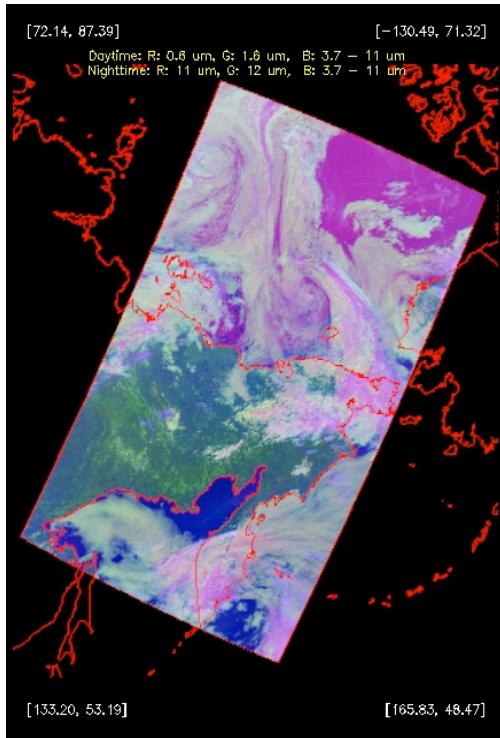
Patrick Minnis (NASA LaRC)

Sunny Sun-Mack (SSAI) and group members

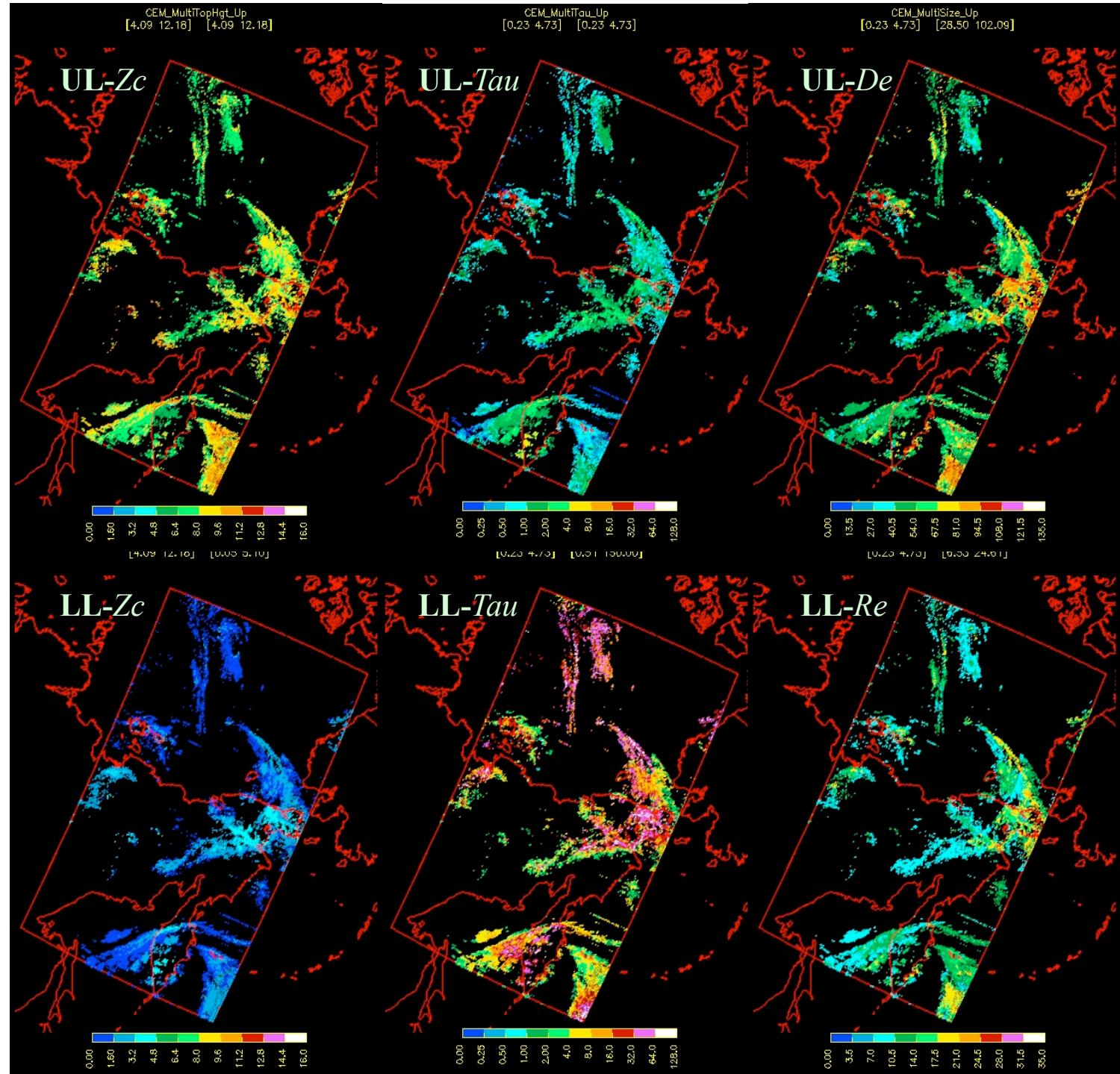
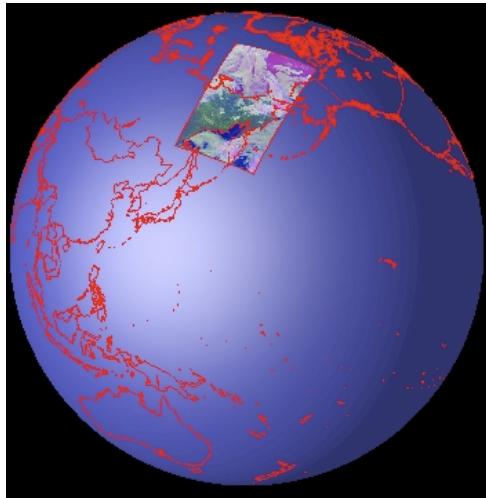
*November 3-5, 2009 CERES Science Team Meeting, Fort Collins, CO*

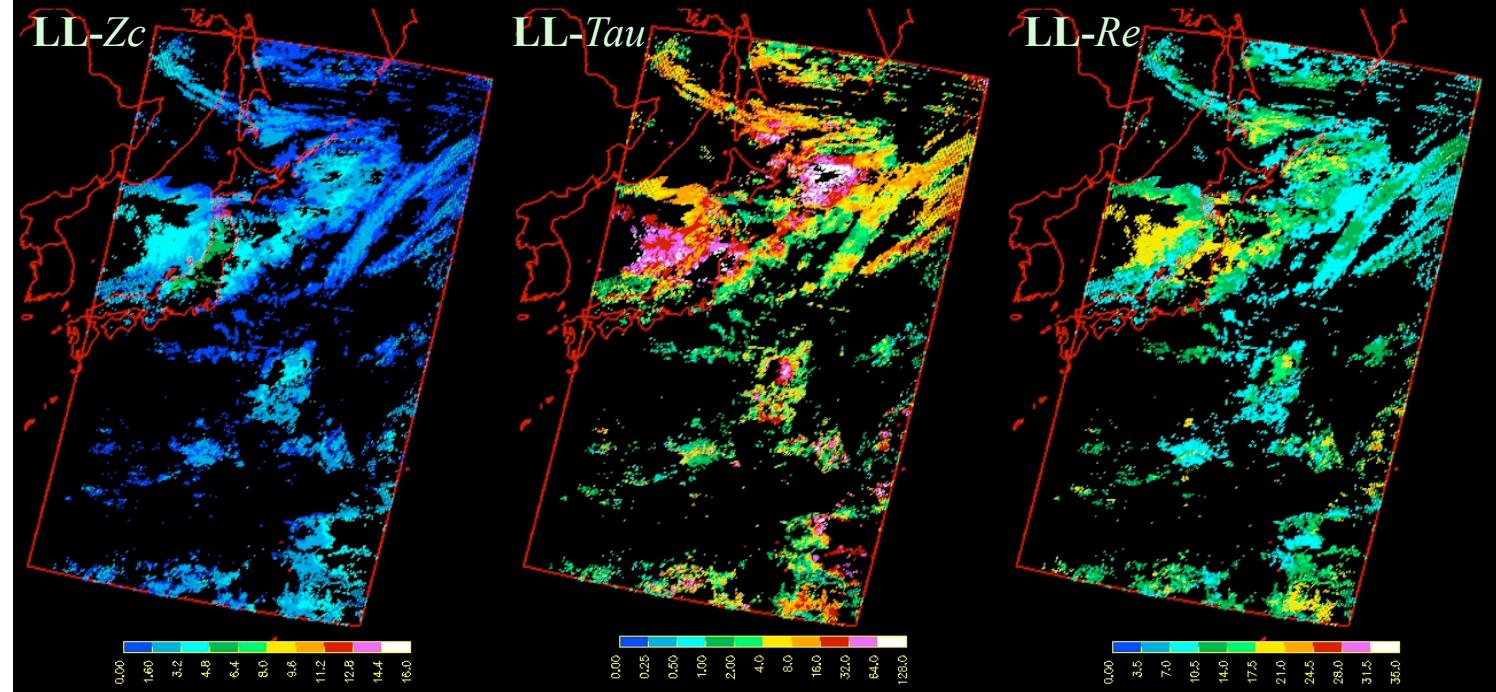
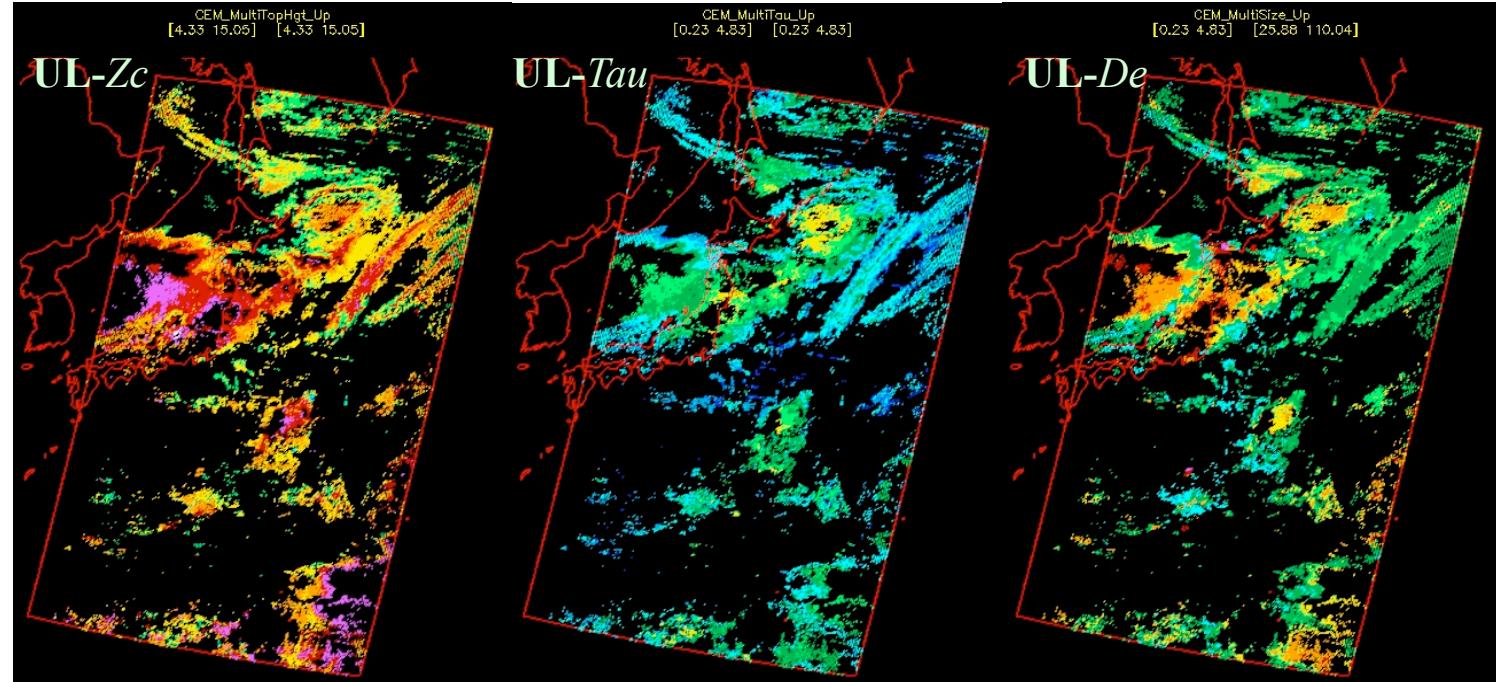
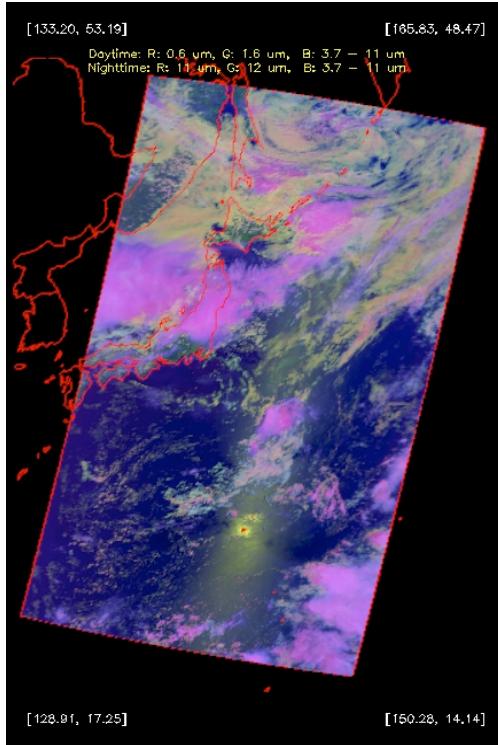
# Outline

- The multilayer (ML) cloud property retrievals.
- Comparisons between the passive- and active-inferred ML cloud properties.
- Possible plans to optimize the ML cloud retrieval algorithm.

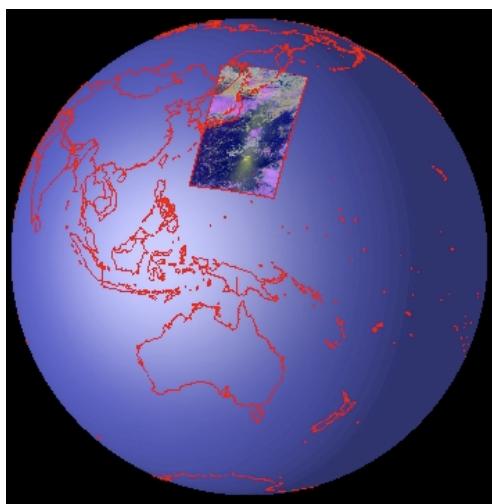


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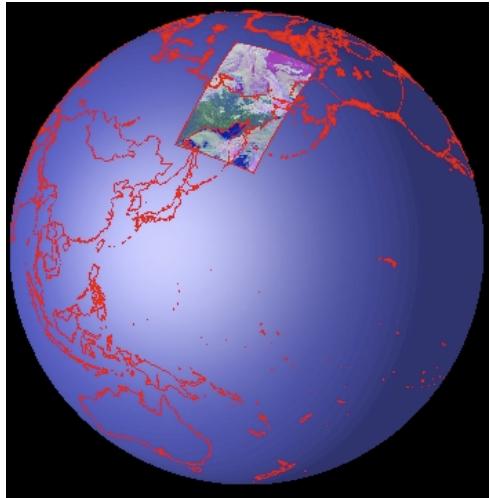




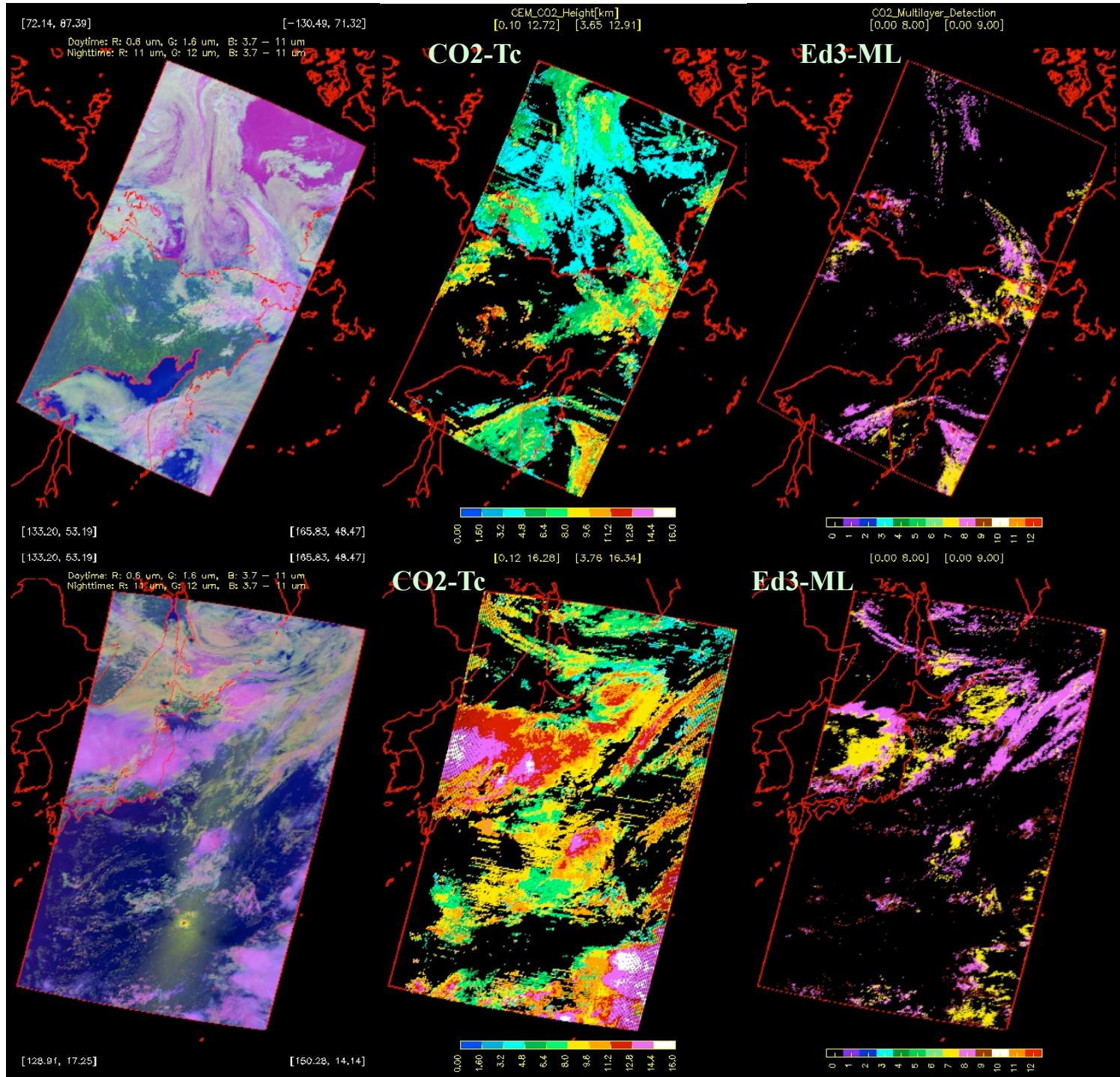
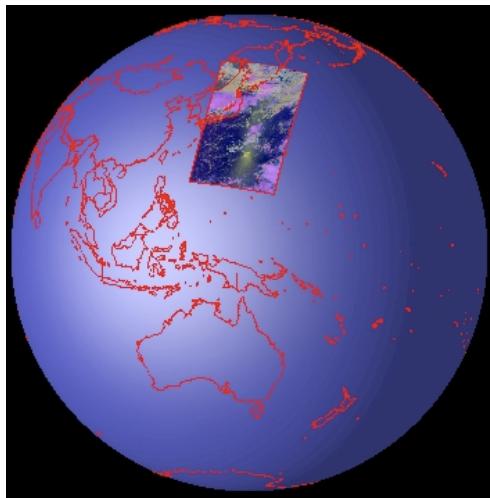
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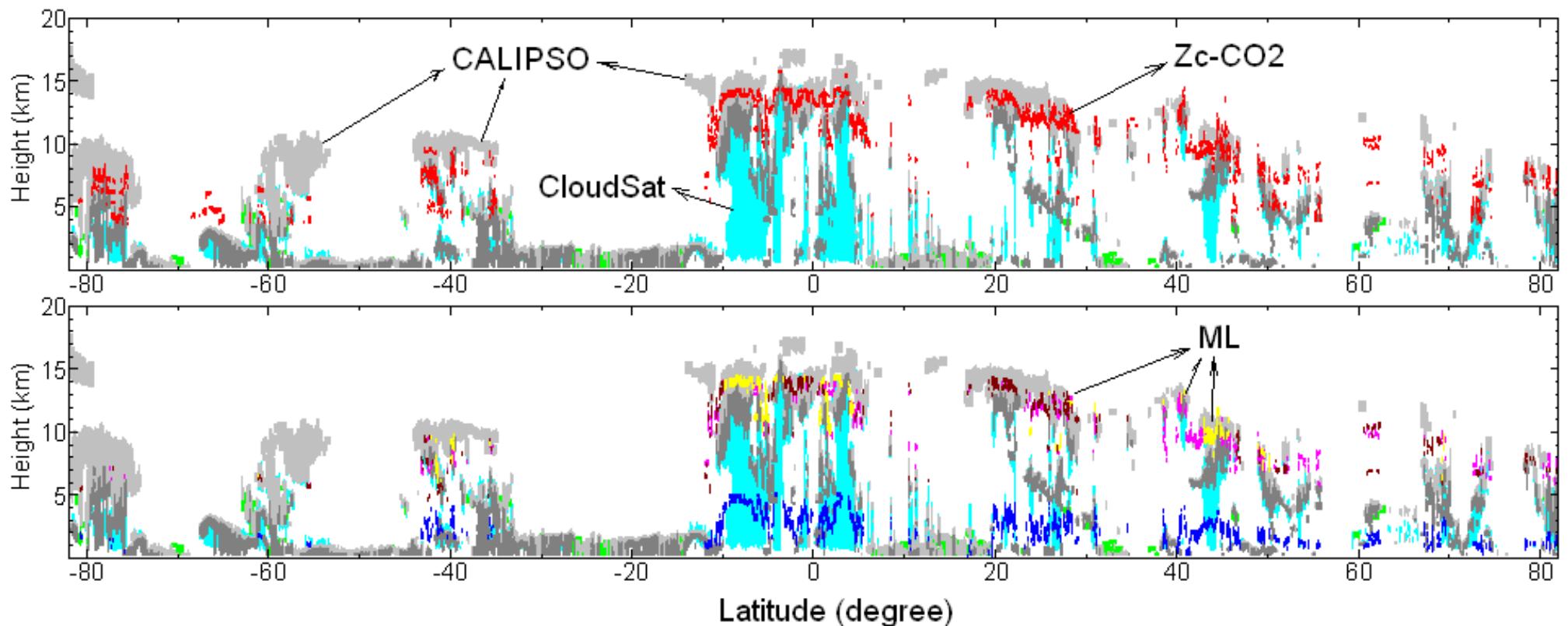


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# Comparisons with the Active Satellite Data

2006.07.15 (UTC 0215 – 0305)



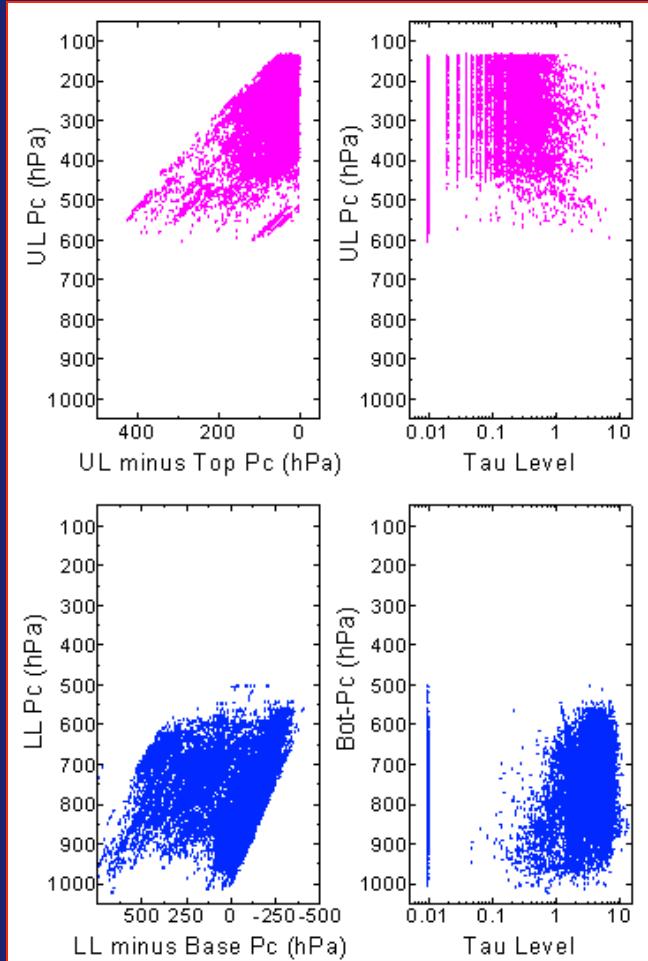
Pink – Multilayer pixel

Yellow – Likely Multilayer Multiphase pixel

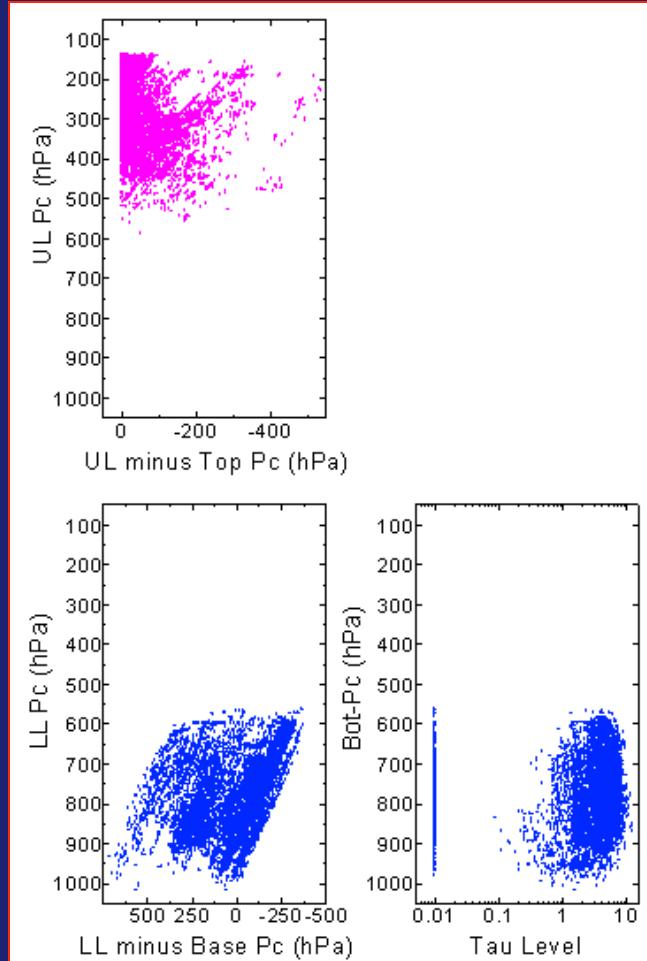
Brown – Weak Multilayer pixel

# Evaluation and Optimization?

A



B



- A) P/Yes, A/Yes, 10%
- B) P/Yes, A/Yes, 4%
- C) P/Yes, A/No, 0.01%
- D) P/No, A/Yes, 6%
- E) P/No, A/Yes, 1%
- F) P/No, A/Yes, 9%
- G) All others, 70%